Smart Cooling (Chilled Water)

Compact and reliable

Canatec Smart Cooling (Chilled Water) combines chilled water and EC fans for precise cooling and humidity control. Select from a wide range of capacities to suit any requirements.

High-Efficiency V-Coil Design
The advanced V-shaped coil design maximizes heat exchange, providing high cooling capacity within a compact unit.

Robust and Durable
Designed to provide reliable cooling for years to come, reducing the need for frequent replacements or repairs.

Ease of Maintenance
Our CRAC units are designed with front door maintenance making routine checks and part replacements easier.

Cooling Capacity
40kW to 180kW

Recommended for
- Data Centres & Server Rooms
- Production Facilities
- Telecommunications Structures

Features & Benefits

Modular Design
Allows for customization and upgrades to suit all customer requirements.

2-Way Modulating Valve
Automatic adjustment according to heat load requirement.

Easy Front Access
Front & side panels allow for ease of maintenance.

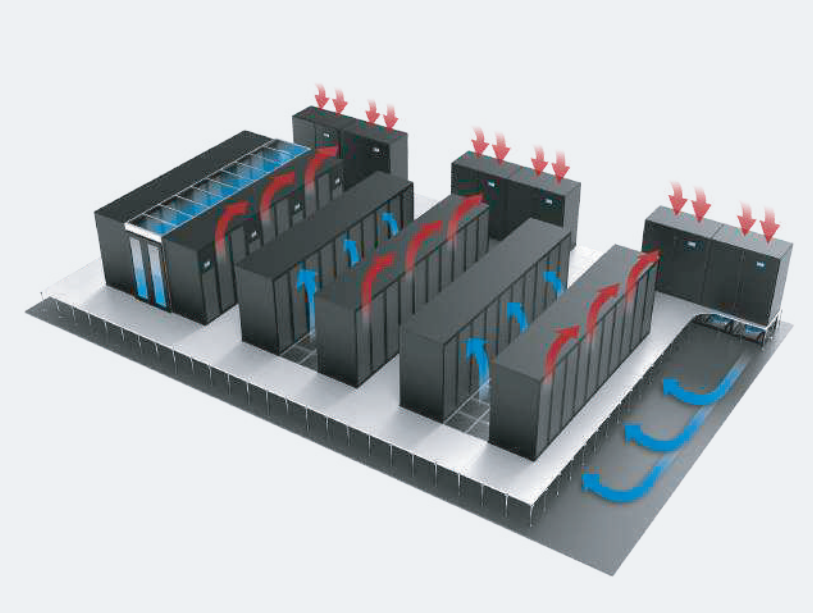
Optional Drawer Pull-Out EC Fan
Easier to inspect and clean, improving overall sustained performance.

Symmetrical V Coil Design
Maximizes heat exchange, providing high cooling capacity within a compact unit.

Upthrow or Downthrow
Different options for air distribution according to requirements.

Smart Controller
Multiple monitoring functions and BMS connection capabilties.

Co-Work™
Enables main board linkage between units for enhanced backup.



Raised Floor Airflow

1. Cold air is supplied by the Smart Cooling unit into the raised floor plenum.
2. Cold air flows up through perforated tiles into the cold aisles, cooling the server racks.
3. Servers exhaust hot air into the hot aisles behind them.
4. Hot air rises and returns to the Smart Cooling unit, where it is cooled.
5. The cycle repeats, ensuring consistent temperature control.

Specifications

Model (SCCU/D****)	0401E	0601E	0801E	1201M	1501E	1801E	1901M
Condition	RAT 36°C, SAT 24°C, CHW 18°C/26°C						
Total Cooling Capacity (kW)	10.5	18.6	62.0	115.2	107.1	133.8	174.3
Sensible Cooling Capacity (kW)	10.5	18.6	62.0	115.2	107.1	133.8	174.3
SHR	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Air Volume (CMH)	2700	4800	16000	29500	27500	34500	42000
CHW Flowrate (L/s)	0.31	0.56	1.85	3.44	6.21	4.00	5.20
Power Input (kW)	0.8	1.0	3.0	6.6	6.0	7.8	10.5
Condition	RAT 24°C, SAT 12°C, CHW 7°C/12°C						
Total Cooling Capacity (kW)	16.4	43.8	79.5	142.7	129.7	165.8	222.6
Sensible Cooling Capacity (kW)	14.1	38.3	68.6	120.4	110.7	139.9	180.4
SHR	0.86	0.87	0.86	0.84	0.85	0.84	0.81
Air Volume (CMH)	3500	9500	17000	29500	27500	34500	42000
CHW Flowrate (L/s)	0.78	2.10	3.80	3.44	6.21	4.00	10.65
Power Input (kW)	1.2	2.0	3.7	6.6	6.0	7.8	10.5
External Static Pressure (Pa)	75						
Fan Type	EC Plug Fan						
Fan Quantity	1	1	2	2	3	3	3
CHW Inlet/Outlet	DN40	DN40	DN50	DN50	DN50	DN50	DN50
Unit Dimension (WxDxH) in mm	930x1000x1980	930x1000x1980	1830x1000x1980	1830x1000x1980	2530x1000x1980	2530x1000x1980	2730x1000x1980
Unit Weight (Kg)	380	410	510	610	650	700	780
Power Supply	380~415V 3P1N 50/60Hz						
Standard Accessories	G4 Filter, Pressure Switch (Filter Dirty), Water Leak Sensor						
Optional Accessories	Active Harmonic Filter, ATS, Battery Backup, EPIV / Energy Valve, Power Meter, Smoke Detector, Remote Air Sensor, Air Damper						

• Please contact our representatives for other requirements.
• The manufacturer reserves the rights to make changes to the product specifications. The data shown above may vary.